

62719-677

3/5/2014

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U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs
Registration Division (7505C)
1200 Pennsylvania Ave., N.W.
Washington, D.C. 20460

EPA Reg. Number:

62719-677

Date of Issuance:

MAR 05 2014

NOTICE OF PESTICIDE:

☒ Registration
☐ Reregistration
(under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

Seeker

Name and Address of Registrant (include ZIP Code):

Dow AgroSciences LLC
9330 Zionsville Road
Zionsville, IN 46268

Note: Changes in labeling (differing in substance from that accepted in connection with this registration) must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration/registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data. You must comply with the following DCIs:
 - a. Lambda-cyhalothrin GDCI-128897-1104, issued on February 1, 2012, and GDCI-128897-1249, issued on December 13, 2012.

If you have questions about the Lambda-cyhalothrin Generic DCIs issued, you may contact Ms. Wilhelmena Livingston from the Pesticide Reevaluation Division at livingston.wilhelmena@epa.gov.

2. Make the following label changes before you release the product for shipment:

- Revise the EPA Registration Number to read, "EPA Reg. No. 62719-677."

Signature of Approving Official:

Venus Eagle, Product Manager 01

Insecticide-Rodenticide Branch, Registration Division (7505P)

Date:

MAR 05 2014

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3. The data requirements for storage stability and corrosion characteristics (Guidelines 830.6317 and 830.6320) are not satisfied. A one year study is required to satisfy these data requirements. You have 18 months from the date of registration to provide these data.
4. Submit one copy of the revised final printed label for the record before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF, dated 8/28/12

If you have any questions, please contact Dr. Jennifer Urbanski at 703-347-0156 or urbanski.jennifer@epa.gov.

Venus Eagle
Product Manager 01
Insecticide-Rodenticide Branch
Registration Division (7505P)

Enclosure

Seeker™

EPA Reg. No. 62719-XXX

Registration Notes:

Proposed Section 3 label.

®™ Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow

(Base label):

RESTRICTED USE PESTICIDE**Due to toxicity to fish and aquatic organisms.**

For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification.

Seeker™**INSECTICIDE**

with ISOCLAST ACTIVE

For control or suppression of aphids, lepidopterous larvae (worms, caterpillars), dipterous leafminers, plant bugs, thrips, whiteflies and certain scales and psyllids in barley, canola, cotton, soybean, triticale, and wheat.

Group	3A & 4C	INSECTICIDE
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Active Ingredient:

Sulfoxaflor.....	9.62%
Lambda-cyhalothrin.....	14.42%
Other Ingredients ¹	75.96%

Total.....100.00%

¹Contains petroleum distillates, xylene or xylene range aromatic solvents.

ACCEPTED
MAR 05 2014
Under the Federal Insecticide, Fungicide,
and Rodenticide Act, as amended, for the
pesticide registered under:

EPA. Reg. No:

62719-677

Contains 40% active ingredient on a weight basis

Keep Out of Reach of Children**WARNING AVISO**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

Precautionary Statements**Hazards to Humans and Domestic Animals**

Contains petroleum distillates, xylene or xylene range aromatic solvents

May be fatal if swallowed. May be fatal if inhaled. Do not breathe spray mist. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wear protective eyewear. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.**Personal Protective Equipment (PPE)**

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Protective eyewear
- A non-powered, air purifying respirator equipped with an organic-vapor (OV) removing cartridge plus an R- or P-series filter, OR a non-powered air purifying canister type respirator equipped with an organic vapor canister that uses an R- or P-series purifying filter.

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- Chemical resistant gloves (such as Barrier Laminate, Butyl Rubber, Nitrile Rubber, Viton, Selection Category F, G, A.)

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Users should remove PPE immediately after handling this product. Wash the outside of the gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

FIRST AID

If swallowed	Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. Do not give anything to an unconscious person.
If inhaled	Move person to fresh air. If person is not breathing call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for treatment advice.
If on skin	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
If in eyes	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-992-5994 for emergency medical treatment information.

NOTE TO PHYSICIAN

Contains petroleum distillate. Vomiting may cause aspiration pneumonia.

Environmental Hazards

This product is extremely toxic to fish and aquatic organisms and toxic to wildlife.

This product is highly toxic to bees exposed through contact during spraying and while spray droplets are still wet. This product may be toxic to bees exposed to treated foliage for up to 3 hours following application. Toxicity is reduced when spray droplets are dry. Do not apply this product or allow it to drift to blooming crops or weeds if bees are foraging the treatment area.

Risk to managed bees and native pollinators from contact with pesticide spray or residues can be minimized when applications are made before 7:00 a.m. or after 7:00 p.m. local time or when the temperature is below 55° F at the site of application.

Refer to the Directions for Use for crop specific restrictions and additional advisory statements to protect pollinators.

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters.

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Physical or Chemical Hazards

Combustible. Do not use or store near open heat or open flame.

Refer to label booklet for Directions for Use.

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. Refer to label booklet under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

Nonrefillable rigid containers 5 gallons or less:**Storage and Disposal**

Do not contaminate water, food or feed by storage or disposal.

Pesticide Storage: Store in original container only. In case of leak or spill, contain material with absorbent materials and dispose as waste.

Pesticide Disposal: Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

Container Handling: Nonrefillable container. Do not reuse or refill this container.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse** as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. **Pressure rinse** as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

Refillable rigid containers larger than 5 gal:**Storage and Disposal**

Do not contaminate water, food or feed by storage or disposal.

Pesticide Storage: Store in original container only. In case of leak or spill, contain material with absorbent materials and dispose as waste.

Pesticide Disposal: Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

Container Handling: Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose.

Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10% full with water and, if possible, spray all sides while adding water. If practical, agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

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Pesticide Storage: Store in original container only. In case of leak or spill, contain material with

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Notice: Read the entire label. Use only according to label directions. **Before using this product, read Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies at end of label booklet. If terms are unacceptable, return at once unopened.**

In case of emergency endangering health or the environment involving this product, call 1-800-992-5994.

EPA Reg. No. 62719-XXX

EPA Est. _____

®™ Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow

Produced for
Dow AgroSciences LLC
9330 Zionsville Road
Indianapolis, IN 46268

NET WEIGHT ____

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(cover, shipping container):

RESTRICTED USE PESTICIDE**Due to toxicity to fish and aquatic organisms.**

For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification.

Seeker™**INSECTICIDE**

with ISOCLAST ACTIVE

For control or suppression of aphids, lepidopterous larvae (worms, caterpillars), dipterous leafminers, plant bugs, thrips, whiteflies and certain scales and psyllids in barley, canola, cotton, soybean, triticale, and wheat.

Active Ingredient:

Sulfoxaflor.....	9.62%
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Other Ingredients ¹	75.96%

Total..... 100.00%

¹Contains petroleum distillates, xylene or xylene range aromatic solvents.

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Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. Refer to label booklet under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

Refer to inside of label booklet for Directions for Use.

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EPA Reg. No. XXXX

EPA Est. _____

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Produced for

Dow AgroSciences LLC
9330 Zionsville Road

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P5K / Seeker / Prop Sec 3 / 03-04-14

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Indianapolis, IN 46268

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(Page 1 through end):

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Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Protective eyewear
- A non-powered, air purifying respirator equipped with an organic-vapor (OV) removing cartridge plus an R- or P-series filter, OR a non-powered purifying canister-type respirator equipped with an organic vapor canister that use an R- or P-series air-purifying filter.
- Chemical-resistant gloved (such as Barrier Laminate, Butyl Rubber, Viton, Selection Category F, G, A)

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations

Users should:

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- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
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Risk to managed bees and native pollinators from contact with pesticide spray or residues can be minimized when applications are made before 7:00 a.m. or after 7:00 p.m. local time or when the temperature is below 55° F at the site of application.

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Physical or Chemical Hazards

Combustible. Do not use or store near open heat or open flame.

Directions for Use

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Read all Directions for Use carefully before applying.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your state or tribe, consult the state or tribal agency responsible for pesticide regulation.

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment, restricted entry interval, and notification to workers (as applicable). The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks

Storage and Disposal

Do not contaminate water, food or feed by storage or disposal.

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Pesticide Storage: Store in original container only. In case of leak or spill, contain material with absorbent materials and dispose as waste.

Pesticide Disposal: Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

Nonrefillable rigid containers 5 gallons or less:

Container Handling: Nonrefillable container. Do not reuse or refill this container.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse** as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. **Pressure rinse** as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

Refillable rigid containers larger than 5 gal:

Container Handling: Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose.

Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10% full with water and, if possible, spray all sides while adding water. If practical, agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

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Product Information

Carefully read, understand and follow label use rates and restrictions. Apply the amount specified in the following tables with properly calibrated aerial or ground spray equipment. Prepare only the amount of spray solution required to treat the measured acreage. The low rates within the rate range may be used for light infestations of the target pests and the higher rates within the rate range for moderate to heavy infestations. Seeker™ insecticide may be applied in either dilute or concentrate sprays so long as the

application equipment is calibrated and adjusted to deliver thorough, uniform coverage. Use the specified amount of Seeker SE per acre regardless of the spray volume used.

Use Precautions

Integrated Pest Management (IPM) Programs

Seeker is recommended for IPM programs in labeled crops. Apply Seeker when field scouting indicates target pest densities have reached the economic threshold, i.e., the point at which the insect population must be reduced to avoid economic losses beyond the cost of control. Other than reducing the target pest species as a food source, Seeker™ does not have a significant impact on most parasitic insects or the natural predaceous arthropod complex in treated crops, including big-eyed bugs, ladybird beetles, flower bugs, lacewings, minute pirate bugs, damsel bugs, assassin bugs, predatory mites or spiders. The feeding activities of these beneficials will aid in natural control of other insects and reduce the likelihood of secondary pest outbreaks. If Seeker is tank mixed with any insecticide that reduces its selectivity in preserving beneficial predatory insects, the full benefit of Seeker in an IPM program may be reduced.

Insecticide Resistance Management (IRM)

Seeker SE contains a Group 3 and 4C insecticide. Insect biotypes with acquired resistance to Group 3 or 4C insecticides may eventually dominate the insect population if Group 3 or 4C insecticides are used repeatedly in the same field or area, or in successive years as the primary method of control for targeted species. This may result in partial or total loss of control of those species by Seeker or other Group 3 or 4C insecticides.

To delay development of insecticide resistance, the following practices are recommended:

- Avoid consecutive use of insecticides on succeeding generations with the same mode of action (same insecticide group) on the same insect species.
- Consider tank mixtures or premix products containing insecticides with different modes of action (different insecticide groups) provided the products are registered for the intended use.
- Base insecticide use upon comprehensive IPM programs.
- Monitor treated insect populations in the field for loss of effectiveness.
- Do not treat seedling plants grown for transplant in greenhouses, shade houses, or field plots.
- Contact your local extension specialist, certified crop advisor, and/or manufacturer for insecticide resistance management and/or IPM recommendations for the specific site and resistant pest problems.
- For further information or to report suspected resistance, you may contact Dow AgroSciences by calling 800-258-3033.

Mixing Directions

Always shake well before use. Avoid freezing.

Application Rate Chart for Crop Uses

Application Rate of Seeker (oz/acre)	Total Active Ingredient Equivalent (lb ai/acre)	Sulfoxaflor, lb ai/acre	Lambda-cyhalothrin, lb ai/acre
1.5	0.0244	0.0097	0.0146
2.0	0.0325	0.0130	0.0195
2.5	0.0406	0.0162	0.0244
3.0	0.0488	0.0195	0.0293
3.5	0.0569	0.0227	0.0342
4.0	0.0650	0.0259	0.0391

Application Directions

Spray Drift Management

14/
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Construct and maintain a minimum 10-foot-wide vegetative filter strip of grass or other permanent vegetation between the field edge and down gradient aquatic habitat (such as, but not limited to, lakes; reservoirs; rivers; permanent streams; marshes or natural ponds; estuaries; and commercial fish farm ponds).

Only apply products containing Seeker™ onto fields where a maintained vegetative buffer strip of at least 10 feet exists between the field and down gradient aquatic habitat.

For guidance, refer to the following publication for information on constructing and maintaining effective buffers: *Conservation Buffers to Reduce Pesticide Losses. Natural Resources Conservation Services. USDA, NRCS. 2000. Fort Worth, Texas. 21 pp. www.in.nrcs.usda.gov/technical/agronomy/newconbuf.pdf*

In the State of New York, a 25 ft. vegetated, non-cropped buffer strip untraversed by drainage tiles must be maintained between a treated field and coastal salt marsh or stream that drains into a coastal salt marsh, for both aerial or ground application. For aerial applications, the 25 ft. vegetated non-cropped buffer strip for runoff protection would be part of the larger 150 ft. buffer strip required for spray drift.

Buffer Zone for Ground Application (groundboom, overhead chemigation, or airblast)

Do not apply within 25 feet of aquatic habitats (such as, but not limited to, lakes; reservoirs; rivers; permanent streams; marshes or natural ponds; estuaries; and commercial fish farm ponds).

Buffer Zone for Non-ULV Aerial Application

Do not apply within 150 feet of aquatic habitats (such as, but not limited to, lakes; reservoirs; rivers; permanent streams; marshes or natural ponds; estuaries; and commercial fish farm ponds).

SPRAY DRIFT REQUIREMENTS**Wind Directions and Speed**

Only apply this product if the wind direction favors on-target deposition.

Do not apply when the wind velocity exceeds 15 mph

Temperature Inversion

Do not make aerial or ground application into temperature inversions.

Inversions are characterized by stable air and increasing temperatures with height above the ground. Mist or fog may indicate the presence of an inversion in humid areas. The applicator may detect the presence of an inversion by producing smoke or observing a smoke layer near the ground surface.

Droplet Size

Use only medium or coarser spray nozzles (for ground and non-ULV aerial application) according to ASAE (S572) definition for standard nozzles. In conditions of low humidity and high temperatures, applicators should use a coarser droplet size.

Additional Requirements for Ground Applications

Wind speed must be measured adjacent to the application site on the upwind side, immediately prior application.

To prevent drift from groundboom applications, apply using a nozzle height of no more than 4 feet above the ground or crop canopy. Shut off the sprayer when turning at row ends. Risk of exposure to sensitive aquatic areas can be reduced by avoiding applications when wind directions are toward the aquatic area.

For airblast applications, turn off outward pointing nozzles at row ends and when spraying the outer two

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rows.

Row Crop Application

Use calibrated power-operated ground spray equipment capable of providing uniform coverage of the target crop. Orient the boom and nozzles to obtain uniform crop coverage. Use a minimum of 5 to 10 gallons per acre, increasing volume with crop size and/or pest pressure. Use hollow cone, twin jet flat fan nozzles or other atomizer suitable for insecticide spraying to provide a fine to coarse spray quality (per ASABE S-572.1, see nozzle catalogs). Under certain conditions, drop nozzles may be required to obtain complete coverage of plant surfaces. Follow manufacturer's specifications for ideal nozzle spacing and spray pressure. Minimize boom height to optimize uniformity of coverage and maximize deposition (optimize on-target deposition) to reduce drift.

Additional Requirements for Aerial Applications

Apply in a minimum spray volume of 3 gallons per acre. Mount the spray boom on the aircraft so as to minimize drift caused by wing tip or rotor vortices. Use the minimum practical boom length and do not exceed 75% of the wing span or 80% of the rotor diameter. Flight speed and nozzle orientation must be considered in determining droplet size. Spray must be released at the lowest height consistent with pest control and flight safety. Do not release spray at a height greater than 10 feet above the crop canopy unless a greater height is required for aircraft safety. When applications are made with a crosswind, the swath will be displaced downwind. The applicator must compensate for this displacement at the downwind edge of the application area by adjusting the path of the aircraft upwind.

Spray Adjuvants

The addition of agricultural adjuvants to sprays of Seeker may improve initial spray deposits, redistribution and weatherability. Select adjuvants that are recommended and registered for your specific use pattern and follow their use directions. When an adjuvant is to be used with this product, Dow AgroSciences recommends the use of a Chemical Producers and Distributors Association certified adjuvant. Always add adjuvants last in the mixing process.

Rotational Crop Restrictions

The following rotational crops may be planted at intervals defined below following the final application of Seeker at specified rates for a registered use.

Crop	Re-Planting Interval
crops registered use	no restrictions
all other crops grown for food or feed	30 days

Use Directions**Barley, Triticale and Wheat**

Pests	Seeker (oz/acre)
Army cutworm	1.6 – 2.6
Cutworm species	
Armyworm	2.1 – 3.1
Aphids ^{1,2}	
Cereal leaf beetle	
Fall armyworm	
Flea beetle species	
Grasshopper species	
Hessian fly ³	
Orange blossom wheat midge	
Stink bug species	
Yellowstriped armyworm	
Grass Sawfly	2.6 – 3.1

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Chinch bug	3.1
Mite species (suppression)	

¹Best control is obtained before insects begin to roll leaves. Once the crop has started to boot, higher rates and increased coverage may be necessary.

²See resistance statement under General Directions for Use.

³Make applications when adults emerge

Application Timing: Treat in accordance with local economic thresholds. Consult your Dow AgroSciences representative, cooperative extension service, certified crop advisor or state agricultural experiment station for any additional local use recommendations for your area.

Application Rate: Use a higher rate in the rate range for heavy pest populations.

Restrictions:

- **Preharvest Interval:** Do not apply within 30 days of harvest. Do not allow livestock to graze in treated areas or harvest treated wheat forage as feed for dairy or meat animals within 7 days after treatment. Do not feed treated straw to meat or dairy animals within 30 days of the last treatment.
- **Minimum Treatment Interval:** Do not make applications less than 14 days apart.
- Do not make more than two applications per crop.
- Do not apply more than 6.1 oz of Seeker (0.039 lb ai sulfoxaflor plus 0.06 lb ai lambda cyhalothrin) per acre per year.
- Do not apply products containing more than 0.09 lb ai of sulfoxaflor or 0.06 lb ai lambda cyhalothrin per acre per year.
- Do not apply this product at any time between 3 days prior to bloom and until after petal fall.

Canola

Pests	Seeker (oz/acre)
Aphids	1.6 – 3.1
Armyworm species	
Cabbage seedpod weevil	
Cutworm species	
Diamondback moth	
Flea beetle	
Grasshoppers	
Looper species	
Plant bugs	

Application Timing: Treat in accordance with local economic thresholds. Consult your Dow AgroSciences representative, cooperative extension service, certified crop advisor or state agricultural experiment station for any additional local use recommendations for your area.

Application Rate: Use a higher rate in the rate range for heavy pest populations.

Restrictions:

- **Preharvest Interval:** Do not apply within 14 days of grain, straw, forage, fodder, or hay harvest.
- **Minimum Treatment Interval:** Do not make applications less than 14 days apart.
- Do not make more than two applications per year.
- Do not apply more than 7.1 oz of Seeker (0.046 lb ai sulfoxaflor plus 0.069 lb ai lambda cyhalothrin) per acre per year.
- Do not apply products containing more than 0.046 lb ai of sulfoxaflor or 0.09 lb ai of lambda cyhalothrin per acre per year.
- Do not apply this product at any time between 3 days prior to bloom and until after petal fall.

Cotton

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Pests	Seeker (oz/acre)
Cutworm species	1.6 – 2.1
Soybean thrips	
Tobacco thrips	
Cabbage looper	2.1 – 3.1
Cotton aphid ²	
Cotton fleahopper	
Cotton leaf perforator	
Cotton leafworm	
Plant bugs ³	
Pink bollworm	
Saltmarsh caterpillar	
Banded Wing Whitefly ² (suppression)	2.6 – 4.1
Beet armyworm ^{1,2}	
Boll weevil	
Brown stink bug	
Cotton bollworm	
European corn borer	
Fall armyworm	
Green stink bug	
Southern green stink bug	
Sweet Potato Whitefly ² (suppression)	
Tobacco budworm ²	
Twospotted spider mite (suppression)	

¹For control of first and second instar only.²See Resistance statement under General Directions for Use.

Advisory Pollinator Statement: Notifying known beekeepers within 1 mile of the treatment area 48 hours before the product is applied will allow them to take additional steps to protect their bees.

Application Timing: Treat in accordance with local economic thresholds. Consult your Dow AgroSciences representative, cooperative extension service, certified crop advisor or state agricultural experiment station for any additional local use recommendations for your area.

Application Rate: Use a higher rate in the rate range for heavy pest populations. Two applications may be required for optimum plant bug control under high pest pressure or heavy immigration of plant bugs from other crops.

Restrictions:

- **Preharvest Interval:** Do not apply within 21 days of harvest.
- **Minimum Treatment Interval:** Do not make applications less than 5 days apart.
- Do not make more than four applications per crop.
- Do not make more than two consecutive applications per crop.
- Do not apply more than a total of 16.4 oz of Seeker (0.11 lb ai sulfoxaflor plus 0.16 lb ai lambda cyhalothrin) per acre per year.
- Do not apply products containing more than 0.266 lb ai sulfoxaflor or 0.2 lb ai lambda cyhalothrin per acre per year.
- Do not make more than a total of 10 synthetic pyrethroid applications (of 1 product or combination of products) to a cotton crop in one growing season.
- Do not graze livestock in treated area.

Soybean

Pests	Seeker (oz/acre)
Bean leaf beetle	1.6 – 2.6
Cabbage looper	

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Corn earworm	
Corn rootworm beetle (Adult):	
Mexican	
Northern	
Southern	
Western	
Cutworm species	
Green cloverworm	
Mexican bean beetle	
Painted lady (thistle) caterpillar	
Potato leafhopper	
Saltmarsh caterpillar	
Soybean aphids ³	
Threecornered alfalfa hopper	
Thrips species ⁴	
Velvetbean caterpillar	
Woollybear caterpillar	
Armyworm ¹	2.6 – 3.1
Blister beetle species	
European corn borer	
Fall armyworm ¹	
Grasshopper species	
Japanese beetle (adult)	
Plant bugs	
Silverspotted skipper	
Stink bug species	
Tobacco budworm ²	
Webworm species	
Yellowstriped armyworm ¹	
Beet armyworm ² (suppression)	3.1
Lesser cornstalk borer (suppression)	
Soybean looper ² (suppression)	
Spider mite species (suppression)	

¹Use higher rate for large larvae²See Resistance statement under General Directions for Use.³Use lower rates for early season applications and/or lighter populations.⁴Does not include western flower thrips.

Application Timing: Treat in accordance with local economic thresholds. Consult your Dow AgroSciences representative, cooperative extension service, certified crop advisor or state agricultural experiment station for any additional local use recommendations for your area.

Application Rate: Use a higher rate in the rate range for heavy pest populations.

Restrictions:

- **Preharvest Interval:** Do not apply within 30 days of harvest.
- Do not graze or harvest treated soybean forage, straw, or hay for livestock feed.
- **Minimum Treatment Interval:** Do not make applications less than 14 days apart.
- Do not make more than four applications per crop.
- Do not make more than two consecutive applications per crop.
- Do not apply more than 6.1 oz of Seeker (0.039 lb ai sulfoxaflo plus 0.06 lb ai lambda cyhalothrin) per acre per year.
- Do not apply products containing more than 0.266 lb ai of sulfoxaflo and 0.06 lb ai of lambda

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cyhalothrin per acre per year.

- No more than two applications may be made to soybean forage.

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